

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

Claims 1 and 2 (Cancelled)

Claim 3. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said optical data storage drive device is of stand-alone type.

Claim 4. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said optical data storage drive device is of portable type.

Claim 5. (Cancelled)

Claim 6. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said built-in/external device can be a video/audio signal providing device and a video/audio signal player including television, projector, plasma display panel, liquid crystal display and monitor of a personal computer.

Claim 7. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said optical data storage device includes one of CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-RW, DVD+R, DVD+RW and DVD-RAM servers.

Claim 8. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said status display includes one of vacuum fluorescent display (VFD) and liquid crystal display (LCD).

Claim 9. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said display is used to display the mode selection, adjustment controlling, and status indicator of said functions.

Claim 10. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said personal computer includes one of a desktop computer, notebook computer, tablet computer.

Claim 11. (Cancelled)

Claim 12. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said standard

interface can be one of the ATAPI-IDE, the serial ATA or SCSI, the USB 1.1/2.0 built-in or externally connected to a personal computer and a IEEE 1394 standard interface.

Claim 13. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said power-on detector is used to detect the voltage on the power supply unit of a personal computer or to detect the computer host reset signal (HRST) on the connecting bus between said personal computer and said panel controller so as to confirm the on status of the power supply.

Claim 14. (Previously Presented) The optical data storage drive device as set forth in claim 16, further comprising a connecting device equipped with a power connector, a CD analogue audio output connector and a digital interface output connector, while said connecting device has a dominating bus and an input/output bus so as to increase the expandability of said optical data storage drive device.

Claim 15. (Previously Presented) The optical data storage drive device as set forth in claim 16, wherein said optical data storage drive device is powered by DC or AC power supply.

Claim 16. (Currently Amended) An optical data storage drive device for multimedia audio/video system having a CD driver, a picture viewer, a DVD driver, a digital video recorder (DVR), a FM radio and a MP3 music CD monolithically integrated in a single device, said optical data storage drive device ~~can be~~ being used as a built-in or external device to a personal computer utilizing a bus switch to release/resume a standard interface between the personal computer and the built-in/external optical data storage drive device, said optical data storage drive device comprising:

    a video/audio input/output selector for inputting video/audio signals and for outputting video/audio signals to the built-in/external optical data storage drive device;

    a video/audio encoder/decoder for encoding input video/audio signal before storing and for decoding stored video/audio signal before outputting to said built-in/external optical data storage drive device through said video/audio input/output selector;

    a microprocessor ~~for~~ controlling the operation of said optical data storage drive device in accordance with a key-in or pre-stored instruction and the read/write of the BIOS data of the personal computer, and ~~for~~ controlling the release/resume operation of the bus switch;

    an optical storage device for storing the encoded video/audio signal and data coming from said microprocessor through said bus switch;

a memory card reader for reading/writing the encoded video/audio signal and data from said microprocessor;

a status display for displaying the operation status of said memory card reader, said personal computer and said optical data storage device and controlled by a display controller connected to said microprocessor;

a power amplifier, connected to said video/audio encoder/decoder for amplifying said input signal and decoded output audio signal;

a speaker connected to said power amplifier for outputting said amplified audio signal; and

a power-on detector connected to a power supply of said personal computer and said microprocessor, the power-on detector detects the power-on status of said personal computer and signals said microprocessor to control said bus switch to release the standard interface between said personal computer and said optical data storage drive device so as to operate without the power supply of said personal computer when the personal computer is off, whereas when said personal computer power-on status is detected, said microprocessor controls said bus switch to resume the function of said standard interface so as to operate said optical data storage drive device through the personal computer.